

## ABSTRACT

An object of the present invention is to provide a novel propylene-based polymer capable of providing a propylene-based polymer with a good adhesion and coatability.

The present invention lies in a propylene-based polymer having a propylene represented by the following characteristics (1) to (3):

(1) The weight-average molecular weight  $M_w$  is from not smaller than 5,000 to less than 1,000,000 as measured by GPC;

(2) In  $^{13}\text{C}$ -NMR, peaks derived from the carbon atom in a methyl group in a propylene unit chain formed by head-to-tail bond are observed and, supposing that the chemical shift of the top of a peak assigned to a pentad represented by mmmm is 21.8 ppm, the ratio of the area  $S_5$  of the peak having its top at 21.8 ppm to the total area  $S$  of peaks appearing within a range of from 19.8 ppm to 22.2 ppm is from not smaller than 10% to not greater than 60%, and, supposing that the area of a peak having its top at 21.5 to 21.6 ppm is  $S_6$ , the relationship  $4 + 2S_5/S_6 > 5$  can be established; and

(3) Regio irregular units based on 2,1-inserted propylene monomer and/or 1,3-inserted propylene monomer are present in its main chain and the sum of the ratio

of regio irregular units based on 2,1-insertion and 1,3-insertion to all propylene insertions is not smaller than 0.05%.